



NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): Three Rivers Community College

Program Title: Maintenance Welding

Degree/Certificate: One-Year Certificate

Options: Click here to enter text.

Delivery Site(s): All locations

CIP Classification: 48.0508

Implementation Date: Spring 2015

Cooperative Partners:

AUTHORIZATION:

Dr. Wesley A. Payne, President/VP for Learning

Name/Title of Institutional Officer

Signature

Date

Dr. Wesley A. Payne, President/VP for Learning

573-840-9688

Person to Contact for More Information

Telephone



Summary of Need Rationale

A. Student and Market Demand

Industry partners in our area project job openings in the next five years in welding will increase due to business trends and projections. These partners agree to work with us allowing us to train the workforce needed for the future. We arrived at these projections partially from questioning them of their projected needs. We have commitment from fifteen students enrolled with us now who plan to complete the weld program which gave us a year one (1) projection. We also conducted an interest poll with industry, and onsite at two Missouri Career Centers. Based upon statistical process and that information we feel we can safely project a small growth over the five year plan.

B. Societal Needs

The program represents an affordable option for employment preparation for residents of the college service area. The tuition for a degree/certificate at Three Rivers College is inexpensive and provides an affordable option to leaving our area to attend another institution. In addition, the nearest facility offering this training is miles away in another region of the state. There are a great number of experienced welders in our area that will have to travel to another state for industry certification. Our plan is that in the future certification will be obtainable here in our area. This program will provide citizens in our region with technical skills to compete in today's global marketplace, to advance career opportunities, and provide a better standard of living for their families.

C. Methodology for Identification of Market and Societal Need

Market demand and societal information was obtained from a variety of sources. Specific sources include but are not limited to the following:

- Advisory Committee recommendations
- Literature review of trade journals
- Labor Statistics
- Occupation Projections
- Needs assessment
- Industry interest poll
- Student interest poll

www.dhe.mo.gov • info@dhe.mo.gov

205 Jefferson Street, P. O. Box 1469, Jefferson City, MO 65102 • (573) 751-2361 • (800) 473-6757 • Fax (573) 751-6635



Duplication and Collaboration

There are various programs similar to the one proposed, offered at other community colleges throughout the state. These program offerings, however are not within the Three Rivers service area and do not create duplication of effort. Neither do private career schools in our area offer this type of programming nor do public secondary institutions offer this type of programming for adult education but only for their students. It should also be noted that the particular courses we plan to offer are not duplicated at even those distant facilities in our state who do offer welding courses, but they are specific to our local industry and societal needs. Our plan to offer Manufacturing Welding is designed to be offered in all locations of the service area.

PROGRAM STRUCTURE

A. Total credits required for graduation: 24

B. Residency requirements, if any: N/A

C. General education: Total credits: 6

Courses (specific courses OR distribution area and credits):

Course Number	Credits	Course Title
CIVL 106	3	Technical Math I
CIVL 107	3	Technical Math II

D. Major requirements: Total credits: 18

www.dhe.mo.gov • info@dhe.mo.gov

205 Jefferson Street, P. O. Box 1469, Jefferson City, MO 65102 • (573) 751-2361 • (800) 473-6757 • Fax (573) 751-6635



Course Number	Credits	Course Title
MAFT 229	3	Introduction to Safety and Health
WELD 155	4	Introduction to MIG
WELD 156	4	Introduction to SMAW
WELD 157	4	Introduction to TIG
WELD 158	4	Introduction to GMAW
WELD 159	4	Introduction to FCAW
WELD 165	3	Welding Blueprint Reading
WELD 255	4	Advanced MIG
WELD 256	4	Advanced SMAW
WELD 265	3	Welding Fabrication

E. Free elective credits: None

(Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:

no

G. Any unique features such as interdepartmental cooperation:

no



STUDENT ENROLLMENT PROJECTIONS

Year	1	2	3	4	5
Full Time	8	10	12	14	17
Part Time	7	6	5	5	5
Total	15	16	17	19	22

Please provide a rationale regarding how student enrollment projections were calculated:

Maintenance is one area in industry where the welding demand is great due to expansion of facility and repair of equipment. Industry partners in our area project job openings in the next five years in maintenance welding will increase due to business projection and trends. These partners agree to work with us allowing us to train their welding workforce for the future. We arrived at these projections partially from questioning them of their business trends and needs. We have commitment from fifteen students enrolled with us now who plan to complete the weld program which gave us a year one (1) projection. We also conducted an interest poll with industry and onsite at two Missouri Career Centers. Based upon statistical process with that information we feel we can safely project a small growth over the five year plan.

Provide a rationale for proposing this program, including evidence of market demand and societal need supported by research:

The need for trained welders is expected to increase in the entire state of Missouri. Based on the Missouri's Fastest Growing Occupations 2013-2015, welding, soldering and brazing machine setters, operators and tenders is listed at number seven from the top. This was in a category that included jobs requiring training longer than 12 months but not longer than an associate's degree. The job category for welder is seventh in the state with a projected growth range of 5.60%. The state averages 306 yearly openings with an industry projected increase in the next five years. The demand was determined through discussion with Three Rivers Student Services, student advisors, Career Education and Workforce Development office, local business and industry leaders in the region and economic development leaders. All reveal there is a need for training in every area of the welding trade for both existing and future technicians.

www.dhe.mo.gov • info@dhe.mo.gov

205 Jefferson Street, P. O. Box 1469, Jefferson City, MO 65102 • (573) 751-2361 • (800) 473-6757 • Fax (573) 751-6635



PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name Three Rivers Community College
Program Name Manufacturing Welding
Date 09/16/2014

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
None
- Characteristics of a specific population to be served, if applicable.
none

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
Instructor must be AWS certified and hold a "CWE" Certified Welding Educator from the American Welding Society
- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
15
- Expectations for professional activities, special student contact, teaching/learning innovation.
None

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
22
- Percent of full time and part time enrollment by the end of five years.
75% FT 25% PT



4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
20
- Special skills specific to the program.
The ability to maintain quality welds through good hand eye coordination and technical math competency.
- Proportion of students who will achieve licensing, certification, or registration.
50%
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
The only assessments for certification we expect to use is various certifications from the American Welding Society. We hope 50% of our graduates by the third year are certified welders whose names will be added to the national registry
- Placement rates in related fields, in other fields, unemployed.
Since we have industry partners who will be sending their students directly to us for training our placement rates should be high. We plan to place 70 to 80% of our students relatively quick and possibly as early as the first year.
- Transfer rates, continuous study.
25%

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. **If there are no plans to seek specialized accreditation, please provide a rationale.**
We plan to seek accreditation through the American Welding society and in the very near future we hope to be an approved AWS testing facility

6. Alumni and Employer Survey

- Expected satisfaction rates for alumni, *including timing and method of surveys.*
We have included industry leaders and have developed an advisory council from area industry. These companies are very excited about our school having already conducted a job fair with us. I expect to have very satisfied industry partners or changes will be made to make that happen.



Expected satisfaction rates for employers, including timing and method of surveys.

I do plan to have a survey prepared for our industry partners and have the results of those shortly after our students become employed. We plan to do it just as we did the interest poll only we can do it during advisory meetings.

7. Institutional Characteristics

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.

First, we received a DOL grant to support the development of this program in October 2013 which means no state money will be needed for set up or operation for the first three years. Next the city of Caruthersville has stepped up and given us a building which has been remodeled for the total purpose of conducting welding classes. We have a certified adjunct faculty onsite with this program, and multiple supporting industry partners.